

# Seunghoon Shin

SOFTWARE ENGINEER · BACKEND

Seoul, Republic of Korea

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## Summary

Experienced backend engineer with over 7 years of expertise in building robust systems.

Striving to design **scalable, maintainable architectures** with a focus on efficiency. Aiming to choose the **right technologies for each situation** and optimize both technical and team workflows.

Discovering the open culture of the IT industry led me to software development. The support I received shaped my growth, and now I strive to give back and inspire others.

## Skills

<b>Programming Languages</b>	Go, Python
<b>Frameworks</b>	gRPC-Gateway, Django, Flask, Scrapy
<b>Database</b>	MySQL, Redis, Neo4j, TimescaleDB, Milvus
<b>Infrastructures</b>	GCP, AWS, Docker
<b>Languages</b>	Korea(native), English(Business)

## Work Experience

### AO Labs

Seoul, S.Korea

BACKEND ENGINEER

May. 2024 - Present

**Market service**      *Go, Redis (Pubsub & Stream), TimescaleDB (PostgreSQL)*

- Designed and implemented a service that dynamically subscribes to and processes real-time market data, including token prices.

**Backend of a Blockchain-based Service**      *Go, gRPC, GCP, Cloud Run, GCP Pubsub, MySQL*

- Subscribed to and indexed blockchain data.
- Developed an admin tool using low-code platform(Retool).

### Mathpresso, Inc.

Seoul, S.Korea

BACKEND ENGINEER, TEAM LEAD

Jan. 2022 - May. 2024

#### Lab Development Team Lead

Oct. 2022 - Mar. 2023

Led a team of around 5 backend engineers, responsible for the QADNA service's problem search engine and data collection to indexing.

- Focused on maximizing individual strengths to improve team performance.
  - Identified strengths and set career goals through regular one-on-one meetings.
- Created an environment for fast and smooth communication to enhance team productivity.
  - Streamlined meetings and fostered a positive atmosphere.

#### Content Platform TF Lead

Mar. 2023 - May. 2024

Managed a team of about 7 members, including engineers, domain experts, and service operators, aiming to efficiently create and manage large volumes of high-quality problem/solution data.

- Communicated with various stakeholders and participated in business decision-making.
- Supported the team in sharing common goals while utilizing resources for different missions.
  - Established quantitative key performance indicators.
  - Presented expected outcomes based on goal achievement.

## Backend Engineer

Jan. 2022 - May. 2024

### Knowledge Graph *Go, Neo4j (graphDB)*

Project to flexibly manage relationships between key models in math education (e.g., problem types, concepts, prerequisite and subsequent concepts).

- Participated from the planning phase to systematize from conceptual units to curriculum, utilizing concept-based data such as problem labeling.

### Data Pipeline *Go, MySQL, GCP, AppEngine*

- Developed data collection, processing, and pipelines for search engines, AI learning, and content services.

### Problem/Solution Resource Service *Go, MySQL, Neo4j*

- Managed and optimized problem/solution data.

### Image Search *Go, Milvus (Vector DB)*

- Built an image search service by integrating in-house Image Embedding models with vector databases.

## Kasa Korea Co., Ltd.

Seoul, S.Korea

BACKEND ENGINEER

Jul. 2019 - Sep. 2021

### Kasa Service Web Server. *Django, DRF, MySQL, redis*

- Contributed project from scratch and experienced in early stages of operation.
- Implemented Authentication, Public Offering, Ledger services. Designed entity-relation and REST API.

## Omnious. Co., Ltd.

Seoul, S.Korea

BACKEND ENGINEER

Nov. 2017 - Jul. 2019

### Labeling Tool

- Maintained backend of in-house web application having 50+ active users for collecting fashion data to train AI model.

*Docker, CircleCI, Rancher, AWS(EC2, S3, RDS)*

- Designed RESTful HTTP API, developed server serving them. Documented API specification for communication.

*flask, NGINX, uWSGI, Swagger*

- Established relation of domain model, designed database schema.

*MySQL*

- Built HTTP access logging system and pipeline to store it.

*fluntd, fluent-bit*

- Introduced unit testing, style guide of codebase.

*flake8, pytest*

### Data Extraction & Transformation *pandas, Celery*

- Extracted collected data to train AI model and pre-processed in a form that is easy to train.
- Automated process from data extraction to data processing, developed CLI tool to access automated data transfer system.

### Crawler *Scrapy, ScrapingHub, Zappa, AWS(SNS, SQS, Lambda)*

- Implemented 20+ web crawlers for collecting fashion images, developed a scheduling tool for management.
- Built serverless pipeline that stores crawled data in a storage.

## LINE Corp.

SOFTWARE DEVELOPER INTERN

Gyeonggi-do, S.Korea, S.Korea

Apr. 2017 - May. 2017

### Targeted Video *Swift, OpenCV*

Developed an iOS app for isolating and modifying desired objects in videos.

- Used technique of contour extraction, image segmentation and stabilization.
- Implemented video editing function that cuts or pastes object user selected.

## Education

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### BoostCamp, Connect Foundation education program

Seoul, S.Korea

iOS COURSE

Jan. 2017 - Feb. 2017

- Developed iOS Application, "Color to Sound, Sound to Color! ChromaTone"  
- <https://github.com/newinh/ChromaTone>

### Konkuk University

Seoul, S.Korea

B.S. IN ELECTRONICS

Mar. 2009 - Feb. 2016

- Graduation piece, "IOT Door Lock using Wireless Home Router & Android Device"